



Analytical Laboratory

13339 Hagers Ferry Road Huntersville, NC 28078-7929 McGuire Nuclear Complex - MG03A2 Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number:	J13050043							
Project Name:	NPDES - MONTHLY							
Customer Name(s):	Michael Byrd, Craig Mercer, Mark	J Harper, Todd Spade, Matthew	Hoyt					
Customer Address:	11021 BROWER RD.							
	NORTH BEND, OH 45052							
Lab Contact:	Mary Ann Ogle	Phone: 980-875-5274						
Report Authorized By: (Signature)		Date:	5/16/2013					
	Mary Ann Ogle							

Program Comments:

Please contact the Program Manager (Mary Ann Ogle) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications: North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

		Collection			
Sample ID	Plant/Station	Date and Time	Collected By	Sample Description	
2013009761	MIAMI-FORT	07-May-13 8:45 AM	ILLEGIBLE	OUTFALL 002	
2013009762	MIAMI-FORT	07-May-13 9:00 AM	ILLEGIBLE	OUTFALL 608	
2 Total Samples					

Technical Validation Review

Checklist:

	COC and .pdf report are in agreement with sample and analyses (compliance programs and procedure	✓ Yes	☐ No				
	All Results are less than the laboratory reporting lim	Yes	▼ No				
	All laboratory QA/QC requirements are acceptable.	✓ Yes	☐ No				
Report S	Sections Included:						
✓ J	ob Summary Report	☐ Sub-contr	acted Laborate	ory Results			
✓ s	ample Identification	Customer	Specific Data	Sheets, Reports, & Documentation			
✓ T	echnical Validation of Data Package	Customer	Database Ent	tries			
✓ A	nalytical Laboratory Certificate of Analysis	✓ Chain of 0	Custody				
□ A	nalytical Laboratory QC Report	☐ Electronic Data Deliverable (EDD) Sent Separately					

Reviewed By: Mary Ann Ogle Date: 5/16/2013

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13050043

Site: OUTFALL 002 Sample #: 2013009761

Collection Date: 07-May-13 8:45 AM Matrix: NPDES

Analyte Result Units Qualifiers RDL DF Method Analysis Date/Time Analyst TOTAL DISSOLVED SOLIDS TDS 860 125 SM2540C 05/14/2013 16:45 JDTALLE mg/L 1

Site: OUTFALL 608 Sample #: 2013009762

Collection Date: 07-May-13 9:00 AM Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
ALKALINITY (FIXED END POINT 4.5	<u>)</u>							
Alkalinity (mg/L CaCO3)	1300	mg/L (CaCO3)		0.1	1	SM2320B	05/14/2013 10:44	TJA7067
INORGANIC IONS BY IC								
Chloride	7400	mg/L		200	2000	EPA 300.0	05/09/2013 15:12	JAHERMA
Fluoride	18	mg/L		5	50	EPA 300.0	05/09/2013 15:12	JAHERMA
Sulfate	11000	mg/L		200	2000	EPA 300.0	05/09/2013 15:12	JAHERMA
TOTAL METALS BY ICP								
Boron (B)	392	mg/L		0.5	10	EPA 200.7	05/10/2013 12:14	DJSULL1
Iron (Fe)	0.100	mg/L		0.01	1	EPA 200.7	05/10/2013 12:14	DJSULL1
Manganese (Mn)	2.59	mg/L		0.005	1	EPA 200.7	05/10/2013 12:14	DJSULL1
TOTAL RECOVERABLE METALS BY	Y ICP-MS							
Arsenic (As)	< 20	ug/L		20	1	EPA 200.8	05/10/2013 13:17	KRICHAR
Barium (Ba)	102	ug/L		20	1	EPA 200.8	05/10/2013 13:17	KRICHAR
Cadmium (Cd)	< 20	ug/L		20	1	EPA 200.8	05/10/2013 13:17	KRICHAR
Chromium (Cr)	< 20	ug/L		20	1	EPA 200.8	05/10/2013 13:17	KRICHAR
Copper (Cu)	< 20	ug/L		20	1	EPA 200.8	05/10/2013 13:17	KRICHAR
Lead (Pb)	< 20	ug/L		20	1	EPA 200.8	05/10/2013 13:17	KRICHAR
Zinc (Zn)	< 20	ug/L		20	1	EPA 200.8	05/10/2013 13:17	KRICHAR
TOTAL DISSOLVED SOLIDS								
TDS	32000	mg/L		500	1	SM2540C	05/14/2013 16:45	JDTALLE
TOTAL SUSPENDED SOLIDS								
TSS	20	mg/L		5	1	SM2540D	05/10/2013 13:30	TJA7067

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Duke Energy Analytical Laboratory					Analytical Laboratory Use Only													
Duke Energy Mail Code MGO3A2 (Building 7405) 13339 Hagers Ferry Rd		LIMS# Sample Class NPDES Samples Originating From								оню			19Page _ 1_ of _ 1 DISTRIBUTION ORIGINAL to LAB, COPY to CLIENT					
N Y		Huntersville, 4) 875-5245 (704) 8	N. C. 28078 Fax: 75-4349	Logged By Vendor	728	5/8/13	3 10)5°	1	- 8	SAMPLE		GRAM		307 1			
1)Project Name		NPDES Monthly May 7, 2013)	2)Phone No:				<i>D</i> Cooler	7 Temp	(C)		NP	DES						
3)Client Miami-Fort	- Michael Byrd, Mat	t Hoyt	4)Fax No:	PO#		2=	Preserv. H ₂ SO ₄ =Ice_5	3=HNE	3	4	3	4	4					
5)Business Unit:	6)Pro	ocess:	7)Resp. Center To:	IMR#			ſ	ses/	1		Z, C							
8)Project ID:	9)Ac	tivity ID:	10)Mail Code:	Cus	stomer to	o complete all on-shaded are	as.	16 Analyse	N N	94	e, Mn, As, Ba, Cr, Cu, Pb, Zn		lty					
LAB USE ONLY	¹² Chem			140		n Information		Comp.	Grab	CI, F, SO4	LL .	TSS	Alkalinity					
"Lab ID	Desktop No.	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED I	Description or ID utfall 002	5/7/13	845 /	Signature	1	THE REAL PROPERTY.		1	-0	-						
2013009761			utfall 608	5/1/13	-	Cunha			K	1 1	1.	1	1					
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Comments:

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